

Birth of The Skunk Works® – 17 June 1943





Top Secret XP-80 Design

The Objective:
Immediate Development and Delivery
of Jet Fighters to Europe to Counter
German Jets Attacking Allied
Bomber Formations



Skunk Works® – Disruptive Speed / Agility





Urgent National Needs... Disruptive Designs Delivered Fast

Aviation Innovation Drivers





- Peers Closing Tech Gap
- Rapidly Expanding & Adapting Military Threats
- Proliferating Commercial Competitors
- Time For Game Change
 With American Innovation

Renaissance In American Aviation Innovation

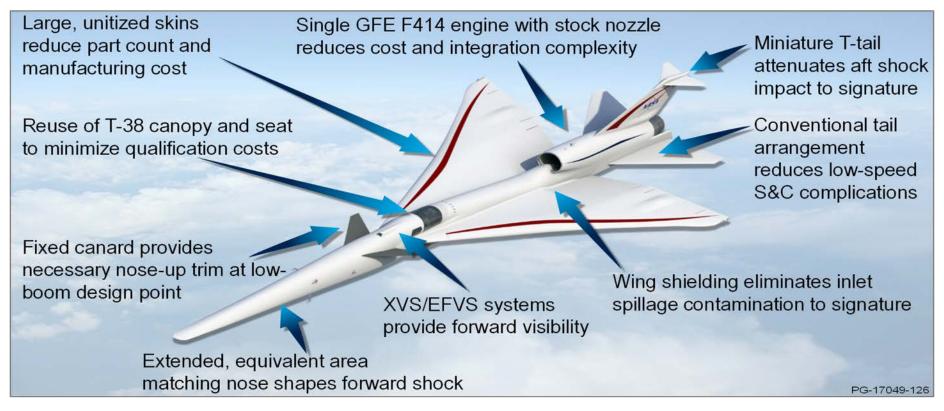






AIRCRAFT FEATURES







Skunk Works®







NASA STRATEGIC IMPLEMENTATION PLAN



3 Mega-Drivers







6 Strategic Research & Technology Thrusts



Safe, Efficient Growth in Global Operations

 Enable full NextGen and develop technologies to substantially reduce aircraft safety risks



Innovation in Commercial Supersonic Aircraft

· Achieve a low-boom standard



Ultra-Efficient Commercial Vehicles

 Pioneer technologies for big leaps in efficiency and environmental performance



Transition to Low-Carbon Propulsion

 Characterize drop-in alternative fuels and pioneer low-carbon propulsion technology



Real-Time System-Wide Safety Assurance

 Develop an integrated prototype of a real-time safety monitoring and assurance system



Assured Autonomy for Aviation Transformation

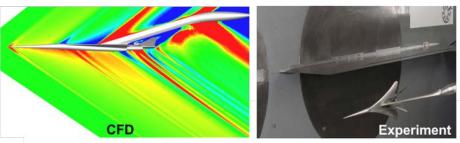
· Develop high impact aviation autonomy applications

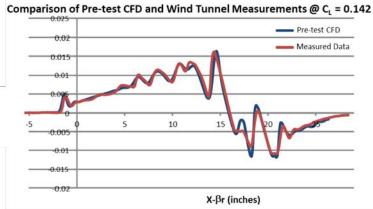




X-59: BREAK THROUGH IN BOOM NOISE REDUCTION







Opens Door To Over-Land Supersonic Flight











Focusing on Performance and Execution

